



PTO/SB/21 (08-03)

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TRANSMITTAL FORM (to be used for all correspondence after initial filing)	Application Number	10/675,812	
	Filing Date	September 29, 2003	
	First Named Inventor	Scott K. PALM	
	Art Unit	Not Yet Assigned	
	Examiner Name	Not Yet Assigned	
Total Number of Pages in This Submission	7	Attorney Docket Number	221612000501

ENCLOSURES (Check all that apply)		
<input type="checkbox"/> Fee Transmittal Form <input type="checkbox"/> Fee Attached <input type="checkbox"/> Amendment/Reply <input type="checkbox"/> After Final <input type="checkbox"/> Affidavits/declaration(s) <input type="checkbox"/> Extension of Time Request <input type="checkbox"/> Express Abandonment Request <input checked="" type="checkbox"/> Information Disclosure Statement (3 pages) <input type="checkbox"/> Certified Copy of Priority Document(s) <input type="checkbox"/> Response to Missing Parts/Incomplete Application <input type="checkbox"/> Response to Missing Parts under 37 CFR 1.52 or 1.53	<input type="checkbox"/> Drawing(s) <input type="checkbox"/> Licensing-related Papers <input type="checkbox"/> Petition <input type="checkbox"/> Petition to Convert to a Provisional Application <input type="checkbox"/> Power of Attorney, Revocation Change of Correspondence Address <input type="checkbox"/> Terminal Disclaimer <input type="checkbox"/> Request for Refund <input type="checkbox"/> CD, Number of CD(s) _____	<input type="checkbox"/> After Allowance Communication to Group <input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences <input type="checkbox"/> Appeal Communication to Group (Appeal Notice, Brief, Reply Brief) <input type="checkbox"/> Proprietary Information <input type="checkbox"/> Status Letter <input checked="" type="checkbox"/> Other Enclosure(s) (please identify below): <ul style="list-style-type: none">Form PTO-1449 (3 pages)Return Receipt Postcard
<div>Remarks</div>		

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT	
Firm or Individual name	MORRISON & FOERSTER LLP (Customer No. 25226) Jill A. Jacobson - 40,030
Signature	<i>Jill A. Jacobson</i>
Date	December <u>3</u> , 2003

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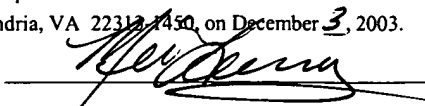
Dated: 12/3/03 Signature: *Mei Y. Leung* (Mei Y. Leung)



PATENT
Docket No. 221612000501
Client Reference: 964005

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Mei Y. Leung

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In the application of:

Scott K. PALM et al.

Serial No.: 10/675,812

Filing Date: September 29, 2003

For: FILTERABLE COMPOSITE
ADSORBENTS

Examiner: Not Yet Assigned

Group Art Unit: Not Yet Assigned

**INFORMATION DISCLOSURE
STATEMENT UNDER 37 C.F.R. § 1.97 & 1.98**

Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450

Dear Sir:

Pursuant to 37 C.F.R. § 1.97 and § 1.98, Applicants submit for consideration in the above-identified application the documents listed on the attached Form PTO-1449. Copies of the documents were previously submitted in an Information Disclosure Statement and/or Office Action, directed to the related application Serial Number 09/145,796 filed September 2, 1998 and, accordingly, copies are not included herewith. This protocol conforms with 37 C.F.R. § 1.98(d) and M.P.E.P. 609(A)(2). The Examiner is requested to make these documents of record in the application.

This Information Disclosure Statement is submitted:

- ☐ With the application; accordingly, no fee or separate requirements are required.
- ☐ Before the mailing of a first Office Action after the filing of a Request for Continued Examination under § 1.114.
- ☒ Within three months of the application filing date or before mailing of a first Office Action on the merits; accordingly, no fee or separate requirements are required.
- ☐ After receipt of a first Office Action on the merits but before mailing of a final Office Action or Notice of Allowance.
 - ☐ A fee is required. A check in the amount of __ is enclosed.
 - ☐ A fee is required. Accordingly, a Fee Transmittal form (PTO/SB/17) is attached to this submission in duplicate.
 - ☐ A Certification under 37 C.F.R. § 1.97(e) is provided below; accordingly, no fee is believed to be due.
- ☐ After mailing of a final Office Action or Notice of Allowance, but before payment of the issue fee.
 - ☐ A Certification under 37 C.F.R. § 1.97(e) is provided below and a check in the amount of __ is enclosed.
 - ☐ A Certification under 37 C.F.R. § 1.97(e) is provided below and a Fee Transmittal form (PTO/SB/17 is attached to this submission in duplicate.)

Applicants would appreciate the Examiner initialing and returning the Form PTO-1449, indicating that the information has been considered and made of record herein.

The information contained in this Information Disclosure Statement under 37 C.F.R. § 1.97 and § 1.98 is not to be construed as a representation that: (i) a complete search has been made; (ii) additional information material to the examination of this application does not exist; (iii) the information, protocols, results and the like reported by third parties are accurate or enabling; or (iv) the above information constitutes prior art to the subject invention.

In the unlikely event that the transmittal form is separated from this document and the Patent Office determines that an extension and/or other relief is required, Applicants petition for any required relief including extensions of time and authorize the Commissioner to charge the cost of such petitions and/or other fees due in connection with the filing of this document to **Deposit Account No. 03-1952** referencing **221612000501**. However, the Commissioner is not authorized to charge the cost of the issue fee to the Deposit Account.

Dated: December 3, 2003

Respectfully submitted,

By: Jill A. Jacobson
Jill A. Jacobson
Registration No. 40,030

Morrison & Foerster LLP
755 Page Mill Road
Palo Alto, California 94304-1018
Telephone: (650) 813-5876
Facsimile: (650) 494-0792

Form PTO-1449

Docket Number 221612000501

Application Number 10/675,812

INFORMATION DISCLOSURE CITATION IN AN APPLICATION

(Use several sheets if necessary)

Applicant

Scott K. PALM et al.

Filing Date September 29, 2003

Group Art Unit Not Yet Assigned

Mailing Date December 3, 2003

U.S. PATENT DOCUMENTS

Examiner Initials	Ref. No.	Date	Document No.	Name	Class	Subclass	Filing Date If Appropriate
	1.	04/1921	1,375,532	Müller			
	2.	01/1961	2,967,149	McCollum			
	3.	05/1974	3,813,347	Hayes			
	4.	11/1975	3,917,814	Hedges et al.			
	5.	11/1977	4,059,544	Yamaguchi et al.			
	6.	08/1978	4,105,576	Seidenberger			
	7.	09/1979	4,168,250	Sutthoff et al.			
	8.	08/1992	4,343,751	Kumar			
	9.	05/1984	4,447,380	Shannon et al.			
	10.	03/1985	4,505,823	Klein			
	11.	06/1996	4,596,660	Hou			
	12.	03/1988	4,732,887	Obanawa et al.			
	13.	12/1991	5,077,070	Regutti			
	14.	02/1992	5,085,784	Ostreicher			
	15.	04/1992	5,104,632	Douden et al.			
	16.	07/1993	5,229,013	Regutti			
	17.	07/1995	5,379,681	Rollen			
	18.	01/1996	5,484,620	Oechsle et al.			
	19.	07/1998	5,776,353	Palm et al.			
	20.	10/1998	5,827,457	Tseng			

FOREIGN PATENT DOCUMENTS

Examiner Initials	Ref. No.	Date	Document No.	Country	Class	Subclass	Translation YES NO
	21.	08/1985	CZ 241725	Czechoslovakia			

EXAMINER:

DATE CONSIDERED:

EXAMINER: Initial if citation considered, whether or not the citation conforms with MPEP 609. Draw a line through the citation if not in conformance and not considered. Include a copy of this form with next communication to applicant.

Form PTO-1449

Docket Number 221612000501

Application Number 10/675,812

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IN AN APPLICATION

(Use several sheets if necessary)

Applicant

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Mailing Date December 3, 2003

22.	06/1985	EP 0 144 200	Europe			
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25.	08/1960	FR 1 241 881	France			
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31.	02/1995	JP 7-47266	Japan			
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34.	Bear, J., "Chapter 5: The Equation of Motion of a Homogeneous Fluid," in <u>Dynamics of Fluids in Porous Media</u> , New York, Dover Publications, Inc., pp. 119-194 (1988).
35.	Berry, L.G. <i>et al.</i> , "Appendix A: Natural Glasses and Macerals," in <u>Mineralogy</u> , 2nd ed., New York, Freeman and Co., pp. 540-542 (1983).
36.	Breese, R. and Barker, J., "Diatomite," in <u>Industrial Minerals and Rocks</u> , Littleton, Colorado, Society for Mining, Metallurgy, and Exploration, pp. 397-412 (1994).
37.	Brunauer, S. <i>et al.</i> , "Adsorption of Gases in Multimolecular Layers," <u>Am. Chem. Soc.</u> , 60, pp. 309-319 (1938).
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DATE CONSIDERED:

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PTO/SB/ 08 (2-92)

pa- 841668

Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Form PTO-1449

Docket Number 221612000501

Application Number 10/675,812

INFORMATION DISCLOSURE CITATION IN AN APPLICATION

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Applicant

Scott K. PALM et al.

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Group Art Unit Not Yet Assigned

Mailing Date December 3, 2003

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| 41. | Hermanson, G.T. <i>et al.</i> , <u>Immobilized Affinity Ligand Techniques</u> (San Diego, Academic Press Inc.), pp. 11-14 (1992). |
| 42. | Kiefer, J., "Kieselguhr Filtration," <u>Brauwelt International</u> , IV/1991; pp. 300-309 (1991). |
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| 48. | Nordén, H. <i>et al.</i> , "Application of Volume Balances and the Differential Diffusion Equation to Filtration," in <u>Separation Science and Technology</u> , Vol. 29, No. 10, pp. 1319-1334 (1994). |
| 49. | Patel, R. <i>et al.</i> , "Radium Removal from Water by Manganese Dioxide Adsorption and Diatomaceous Earth Filtration: Final Report, Environmental Pollution & Control, Water Pollution & Control," <u>Gov. Rep. Announce. Index (U.S.)</u> , Vol. 5, publication number 211,222 (1992). |
| 50. | Ruthven, D.M., "Adsorption," in: <u>Kirk-Othmer Encyclopedia of Chemical Technology</u> , 4th ed., Vol. 1, Kroschwitz, J.L., editor, John Wiley & Sons, pp. 493-528 (1991). |
| 51. | Schuler, P.F. <i>et al.</i> , "Diatomaceous Earth Filtration of Cysts and Other Particulates Using Chemical Additives," <u>J. Am. Water Works Assoc.</u> Vol. 82, No. 12, pp. 67-75 (1990). |

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